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DtF Decision Support System

THE TOOL





What is it?

 The DtF DSS is an excel based decision support system allowing decision makers to find the best suitable solution, based on past experience, for achieving port related strategic objectives





DSS Rationale

Ongoing challenges

Port decision makers face multidimensional challenges with investments impacted by:

- ✓ Long term goals vs short term conflicting interests
- ✓ Stakeholders' competition
- ✓ Interconnected decision making processes

Open issues

Therefore, port decision makers need to:

- Cope with multi-dimensional issues and critical challenges
- Find ways to simplify the research for feasible solutions
- Promote long term port development, assuring short term value for port stakeholders





A potential problem scenario

We might look at ways to reduce emissions..

..but at the same time we might want to reduce port activities' negative impacts on local community!





DSS Objectives

The DSS is a valuable tool for understanding which measures, projects and initiatives need to be pursued in order to achieve ports' high level strategic objectives

 To help in selecting the "right" initiatives to achieve a series of Strategic Objectives chosen by the user

>>>>>>>>

 To support complex decision-making processes in which there is a multi-objective function





DSS Interface

Sorted **Projects**



Basic interface:

Select Strategic Objectives

Suggested measures

to investigate

Projects details

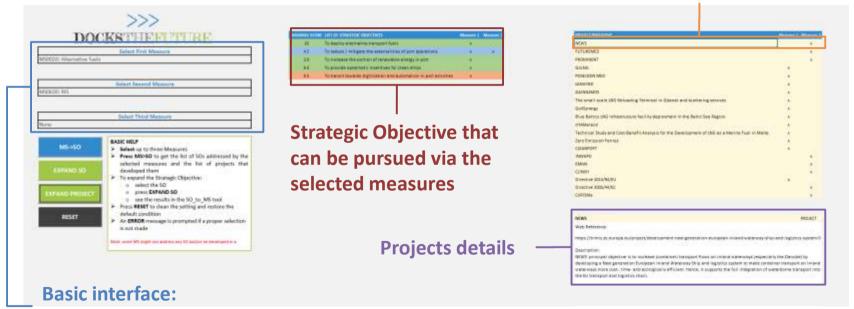






DSS Interface

Sorted Projects



Select Measures







DSS Limitations

- The effective use of the tool is influenced by:
 - Database reliance and interdependence
 - Missing key indicators on performance and transferability
 - The contextualization of the measures and their applicability to the specific context is up to the user (i.e., further analysis will be needed)



Further development

- In respect to the first released version, future DSS apps will:
 - Embed other DtF outputs (e.g. PCI and TA-score)
 - Guarantee full interoperability
 - Enlarge the number of initiatives considered

Decision Support System (DSS)

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